AMENDMENT

Listing of the Claims:

The following listing of claims will replace all prior versions and listings of claims in the application.

- 1.-37. (Canceled)
- (Currently Amended) A <u>pharmaceutical composition comprising an isolated</u> hyperimmune serum-reactive antigen comprising an amino acid sequence from any of SEQ ID NOs: 32-to 62 SEO ID NO: 32 or antigenic fragments thereof.
- 39. (Canceled)
- 40. (Currently Amended) The pharmaceutical composition of claim 38, wherein the hyperimmune serum-reactive antigen or fragment of claim 39, is further defined as comprising an amino acid sequence of: amino acids 6-28, 54-59, 135-147, 193-205, 274-279, 284-291, 298-308, 342-347, 360-366, 380-386, 408-425, 437-446, 457-464, 467-477, 504-510, 517-530, 535-543, 547-553, 562-569, 573-579, 592-600, 602-613, 626-631, 638-668 and/or 396-449 of SEQ ID NO: 32; 5-24, 101-108, 111-117, 128-142, 170-184, 205-211, 252-267, 308-316, 329-337, 345-353, 360-371, 375-389, 393-399, 413-419, 429-439, 446-456, 471-485, 495-507, 541-556, 582 588, 592 602, 607-617, 622-628, 630-640 and/or 8-21 of SEO ID NO: 33; 10-20, 23-33, 40-45, 59-65, 72-107, 113-119, 127-136, 151-161 and/or 33-59 of SEO ID NO: 34; 4-16, 28-34, 39-61, 66-79, 100-113, 120-127, 130-137, 142-148, 150-157, 192-201, 203-210, 228-239, 245-250, 256-266, 268-278, 288-294, 312-322, 336-344, 346-358, 388-396, 399-413, 425-430, 445-461, 464 470, 476 482, 486 492, 503 511, 520 527, 531 541, 551 558, 566 572, 609 625, 635 642, 650 656, 683 689, 691 705, 734 741, 750 767, 782 789, 802 808, 812 818, 837 844, 878 885, 907-917, 930-936 and/or 913-933 of SEO ID NO: 35; 5-12, 20-27, 46-78, 85-92, 104-112, 121-132, 150-167, 179-185, 200-213, 221-227, 240-264, 271-279, 282-290, 311-317 and/or 177-206 of SEQ ID NO: 36; 18 24, 31 40, 45-51, 89-97, 100 123, 127-132, 139-153, 164-170, 184-194, 200 205, 215 238, 244 255, 257 270, 272 280, 289 302, 312 318, 338 348, 356 367 and/or 132-152 of SEO ID NO: 37; 7-16, 39-45, 73-83, 90-98, 118-124, 130-136, 194-204, 269-280, 320-327, 373 381, 389 397, 403 408, 424 430, 436 441, 463 476, 487 499, 507 514, 527 534, 540 550, 571-577, 593-599, 620-629, 641-647, 650-664, 697-703, 708-717, 729-742, 773-790, 794-

805, 821-828, 830-837, 839-851, 858-908, 910-917, 938-947, 965-980, 1025-1033, 1050-1056, 1073 1081, 1084 1098, 1106 1120, 1132 1140, 1164 1170, 1185 1194, 1201 1208, 1215 1224 1226 1234, 1267 1279, 1325 1331, 1356 1364, 1394 1411, 1426 1439, 1445 1461, 1498 1504, 1556-1561, 1564-1573, 1613-1639, 1648-1655, 1694-1714, 1748-1755, 1778-1785, 1808-1813, 1821-1827, 1829-1837, 1846-1852, 1859-1865, 1874-1883, 1895-1900, 1908-1913, 1931-1937, 1964 1981, 1995 2005, 2020 2033, 2040 2047, 2103 2109, 2118 2127, 2138-2144, 2166 2175, 2180 2187, 2220 2225, 2237 2242, 2247 2253, 2273 2281, 2286 2306, 2314 2320, 2323 2345, 2350-2355, 2371-2384, 2415-2424, 2426-2431, 2452-2472, 2584-2589, 2610-2621, 2638-2655, 2664 2670, 2681 2690, 2692 2714, 2724 2730 and/or 687 730 of SEQ ID NO: 38; 10-40, 53-59, 79-85, 98-104, 117-122, 130-136, 144-158, 169-175, 180-185, 203-223, 232-237, 243-254, 295-301 and/or 254-292 of SEO ID NO: 39: 28-50, 67-85, 93-115, 120-134, 144-179, 240-249, 328-340, 354-360, 368-400, 402-417, 419-427, 429-445, 447-455, 463-468, 472-480, 485-500, 502-510, 512 534, 537 546, 553 558, 582 594, 619 637, 645 654, 690 709, 735 745, 749 756, 786 792, 275-316 and/or 378-401 of SEQ ID NO: 40; 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12-19, 29-41, 43-57, 80-98, 106-141, 143-156, 172-183, 185-210, 214-220, 226-234, 278-287 and/or 237-287 of SEQ ID NO: 54; 5-12, 32-48, 50-72, 75-81, 88-94 and/or 16-40 of SEQ ID NO: 55; 4-21, 29-42. 48.62. 65.80. 95.101. 103.118. 122.130. 134.140. 143.152. 155.165. 182.192. 198.208. 232-247, 260-268, 318-348, 364-369, 380-391, 403-411, 413-424 and/or 208-230 of SEO ID NO: 56: 4 18, 65-75, 82-92, 123-140, 144-159, 166-172, 188-194 and/or 174-195 of SEQ ID NO: 57: 7-20, 58-71, 94-101, 110-119, 199-209, 231-242, 247-254, 267-277, 282-290, 297-306, 313 319, 333 342, 344 369, 390 402, 414 431, 436 448, 462 471 and/or 310 350 of SEQ ID NO: 58: 4-25, 37-44, 53-59, 72-78, 86-99, 119-128, 197-203, 209-218, 220-226, 233-244, 246-254, 264-271, 277-289, 407-430, 437-445, 464-472, 482-488, 503-509 and/or 308-331 of SEQ ID NO: 59; 4-12, 14-43, 52-58 and/or 43-58 of SEQ ID NO: 60; 4-14, 21-29, 35-49 and/or 38-50 of SEQ ID NO: 61; 4-19, 31-37, 58-72, 94-108 and/or 1-72 of SEQ ID NO: 62.

- 41. (Currently Amended) The <u>pharmaceutical composition of claim 38, wherein the</u> hyperimmune serum-reactive antigen or fragment of claim 39, comprising <u>comprises</u> at least 6 contiguous amino acids of any of SEQ ID NOs: 32 to 62 SEQ ID NO; 32.
- 42. (Currently Amended) The <u>pharmaceutical composition of claim 38, wherein the</u> hyperimmune serum-reactive antigen or fragment of elaim 39, comprising <u>comprises</u> at least 8 contiguous amino acids of any of SEQ ID NOs: 32 to 62 SEQ ID NO; 32.
- 43. (Currently Amended) The <u>pharmaceutical composition of claim 38, wherein the</u> hyperimmune serum-reactive antigen or fragment of claim 39, comprising <u>comprises</u> at least 10 contiguous amino acids of any of SEQ ID NOs: 32 to 62 <u>SEO</u> ID NO: 32.

44-45. (Canceled)

- (Currently Amended) The pharmaceutical composition of claim [[45]]38, wherein the hyperimmune serum-reactive antigen or fragment is directed against S. epidermidis.
- (Currently Amended) The pharmaceutical composition of claim [[45]]38, further defined as comprising at least two different hyperimmune serum-reactive antigens and/or fragments.
- 48. (Previously Presented) The pharmaceutical composition of claim 47, wherein the at least two different hyperimmune serum-reactive antigens and/or fragments are both directed against S. epidermidis.
- (Currently Amended) The pharmaceutical composition of claim [[45]]38, further comprising an immunostimulatory substance.
- 50. (Previously Presented) The pharmaceutical composition of claim 49, wherein the immunostimulatory substance is a polycationic polymer, an immunostimulatory deoxynucleotide (ODN), a peptide containing at least two LysLeuLys motifs, a neuroactive compound, alum, or a Freund's complete or incomplete adjuvant.
- 51. (Withdrawn) The pharmaceutical composition of claim 50, wherein the polycationic polymer is a polycationic peptide.

- 52. (Withdrawn) The pharmaceutical composition of claim 50, wherein the neuroactive compound is human growth hormone.
- 53. (Currently Amended) The pharmaceutical composition of claim [[45]]38, further defined as a vaccine.
- (Previously Presented) The pharmaceutical composition of claim 53, further defined as a vaccine for treatment and/or prevention of S. epidermidis infection.
- 55. (Withdrawn Currently Amended) A method of vaccinating a subject comprising; obtaining a pharmaceutical composition of claim [[45]]38; and administering the pharmaceutical composition to a subject; wherein the subject is vaccinated.
- 56. (Withdrawn) The method of claim 55, wherein the subject is a human.
- 57. (Withdrawn) The method of claim 55, further defined as a method of treating and/or preventing S. epidermidis infection in the subject.
- 58. (Withdrawn) The method of claim 55, wherein the hyperimmune serum-reactive antigen or fragment is directed against S. epidermidis.
- (Withdrawn) The method of claim 55, wherein the pharmaceutical composition comprises at least two different hyperimmune serum-reactive antigens or fragments thereof.
- 60. (Withdrawn) The method of claim 59, wherein the at least two different hyperimmune serum-reactive antigens or fragments thereof are both directed against S. epidermidis.